

## Proposal – Expansion of the Egin Lakes Recharge Project

March 12, 2010

### Concept for Expansion of the Egin Lakes Recharge Project

- a. Phase 1 – Completed
  - i. Proof of concept
  - ii. Initial approval of site for managed recharge from BLM achieved
  - iii. Resulted in recharge of about 20,000 acre-feet of water in 2008 and 2009
  - iv. Already being used for recharge in 2010
- b. Phase 2 – Investigate expansion (summer of 2010)
  - i. Establish a rigorous water measurement network: \$10K
  - ii. Establish a new monitoring well: \$15K
  - iii. Perforate existing monitoring well: \$5K
  - iv. Camera existing monitoring wells: \$5K
  - v. Conduct a dye test on Hidden Lake and conduct additional geohydrologic analyses (faults, water flows, pump tests, ground water level measurements, etc.): \$10K
  - vi. Conduct an engineering review of enlargement of recharge canal delivery system: \$10K
  - vii. Clean existing recharge system: \$20K
  - viii. Review easements of the recharge canal delivery system: \$1K
  - ix. Conduct water quality monitoring: \$5K
  - x. Conduct document search: \$4K
  - xi. Review and coordinate water rights: \$5K
    - 1. IWRB recharge water rights
    - 2. Storage from Fremont Madison Irrigation District and others
    - 3. Other
  - xii. Contingencies: \$10K
  - xiii. Total: \$100K
- c. Phase 3 – Implement expansion (fall and winter of 2010) (Based on results of Phase 2) if feasible:
  - i. Enlarge recharge canal and facilities \$300K
  - ii. Obtain additional approvals from BLM (as required – consider a land exchange)
  - iii. Continue monitoring program: \$40K
  - iv. Diversion for recharge: Spring of 2011